

Multiplicative Identity Property

The product of **any number** and **1** is equal to **that number**.

$$1 \cdot a = a \quad \text{and} \quad a \cdot 1 = a$$

Examples:

Multiplicative Inverse Property

For **any number**, a , not equal to zero, there is a **multiplicative inverse** $\frac{1}{a}$ such that...

$$a \cdot \frac{1}{a} = 1$$

Examples:

Find the **multiplicative inverse** of the following numbers.

12

-3

8

x

The **multiplicative inverse** (**reciprocal**) of a fraction $\frac{a}{b}$ is $\frac{b}{a}$.

To create the **reciprocal** of a fraction, switch the numerator and denominator.

$$\frac{5}{12}$$

$$\frac{4}{9}$$

$$\frac{1}{5}$$

$$\frac{3}{x}$$

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